

## BIBLIOGRAPHICAL RECORD.

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*A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.*

*Corrections of errors and notices of omissions are solicited.*

**Balbani, E. G.** Sur l'origine des cellules du follicule et du noyau vitellin de l'oeuf chez les géophiles. (Zool. anzeiger, 1883, jahrg. 6: 10 Dec., p. 658-662; 24 Dec., p. 676-680: to fig.)

Notice, by P. Mayer. (Zool. jahresb. für 1883, 1884, abth. 2, p. 1, 8.)

States that there is a genetic connection between the cells of the follicle and the nucleus of the egg. In *geophilus longicornis* the cells are produced at the end of a kind of stolon formed by a prolongation of the nucleus; in *g. carpophagus* they arise by a process of budding at several points of the surface of the nucleus.

E: L. M. (3788)

**Chatin, Joannes.** Note sur la structure du noyau dans les cellules marginales des tubes de Malpighi chez les insectes et les myriapodes. (Annal. sci. nat., 1882 [Jan. 1883], s. 6, v. 14, no. 3, p. 1-7, pl. 19 B.)

The intimate structure of the nucleus in the marginal cells of the malpighian tubes, especially the structure of the moniliform nuclear cord and its relation to the nucleoli, are discussed and illustrated by figures from *ulmus*, *gryllotalpa*, *carabus*, *papilio* and *apis*. There is an intimate connection (continuity?) between the cord and the nucleoli in which it terminates. The moniliform may appear like surposed globules, or dark disks alternating with clear spaces, which may be transverse or inclined so as to appear like a spiral. The last condition may be natural or may result from a shifting of the disks due to treatment; according to the latter hypothesis the cord must have a limiting membrane.

E: L. M. (3789)

**Cresson, Ezra Townsend.** Catalogue of a collection of hymenoptera made by Prof. F. Sumichrasi near Cordova, Mexico. Part 1. (Trans. Amer. entom. soc., May 1868, v. 2, p. 1-38.)

Notice, by A. S. Packard, jr. (Record of Amer. entom. for 1868, 1869, p. 1, 4-5.)

Introductory remarks on the excellence and zeal of F. Sumichrasi as a collector, the paucity of European writings on American *hymenoptera terbrautia*, the difficulties of the study of these insects, especially the *entomophaga*, and the merging of the characters of *Ichneumon*, *Hoplismenus*, *Jappa* and *Trogus*; synopsis of groups and descriptions of species of 38 (37 new) *Ichneumon*, 13 new *Hoplismenus*, 3 new *Oedicephalus* (n. g.), 8 (7 new) *Jappa*, 1 new *Stilpnus*, 7 new *Mesoleptus*, 2 new *Tryphon*, 2 new *Evochoides* (n. g.), 3 new *Xochus*, collected by F. Sumichrasi near Cordova, Mexico.

B: P. M. (3790)

**Cresson, Ezra Townsend.** Catalogue of a small collection of hymenoptera made in New Mexico during the summer of 1867. (Trans. Amer. entom. soc., Jan.-Feb. 1868, v. 1, p. 375-388, 1 fig.)

Describes *uroceus arcuolatus* (and figures fore wing), *scolia* (*discolia* *leuante*, s. (*d.*) *flavocostalis*, *coloptera wrightii*, *gorytes propinquus*, *g. tricolor*, *odynerus rufofusus*, *o. toos*, *pterochilus lewisii*, *polistes navajoe*, *p. flavus*, *andrena mellea*, *nomia noytoni*, n? *apacha*, *perdita? albipennis*, *anthidium occidentale*, *a. atrifrons*, and *melissodes mennachus*, all new species, and gives a list of some other species collected in New Mexico and neighboring territories; *scolia regina* ♀ = *elis xantiana* ♀, s. *flavosignata* ♂ may be = *e. xantiana* ♂, in which case s. *consors* Cress. must be named *e. zonaria* n. sp.; s. *ridingsii* may be s. *nobilitata* var. B: P. M. (3791)

**Cresson, Ezra Townsend.** Catalogue of hymenoptera in the collection of the Entomological society of Philadelphia, from Colorado Territory. (Proc. Entom. soc. Philad., 1865, v. 4: April, p. 242-313; June, p. 426-488.)

Notice. (GERSTAECKER, A. Bericht... 1865-1866, hülft 2, 1869, p. 5, 21, 22, 25, 26, 29, 33, 36, 43.)

Enumerates 205 (114 new) species of hymenoptera, in general of all families except *vespariæ* and *apiariæ*, from Colorado, with synonymical references, and describes the new species; describes *ceratosoma* and *ten-thredoides*, 2 new genera of *ichneumonidae*.

B: P. M. (3792)

**Cresson, Ezra Townsend.** Catalogue of North American *apidae*. (Trans. Amer. entom. soc., Feb.-Mch. 1879, v. 7, p. 215-232.)

Systematic list of the *apidae* of North America, including Central America and West Indies, with reference to original descriptions and to habitats of the species; comprises 45 genera and 632 species.

B: P. M. (3793)

**Cresson, Ezra Townsend.** Description of a new species of *masaris* from California. (Trans. Amer. entom. soc., May 1872, v. 4, p. 87-88.)

Describes *masaris edwardsii* ♀ ♂ n. sp., from California.

B: P. M. (3794)

**Cresson, Ezra Townsend.** Description of a new species of *masaris*, from the Rocky Mountains. (Proc. Entom. soc. Philad., June 1863, v. 2, p. 69-74, pl. 4.)

Describes *masaris vespoidea* n. sp. ♂ ♀ and ♀ variety from Colorado and inserts a comparison with *m. vespoformis*, "the type of the genus"; points out errors in the figures. B: P. M. 3795

**Cresson, Ezra Townsend.** Descriptions of new North American hymenoptera in the collection of the American entomological society. (Trans. Amer. entom. soc., Mar. 1878, v. 7, p. 61-136, il.)

Describes 8 species of *panurgus*, 15 *calliopsis*, 5 *perdita*, 4 *macrotera*, 31 *nomada*, 2 *ostrius*, 4 *phileremus*, 10 *epoelus*, *crochus*? *lata*, 3 *melicta*, 9 *stelis*, *coelioxys* n. g., *c. punctipennis*, 16 *coelioxys*, 18 *osmia*, *heriades*? *denticulatum*, *chelostoma californicum*, *aitidamea truncata*, 23 *anthidium*, 37 *megachile*, 4 *ceratula*, *xylocopa azteca*, 5 *exomalopsis*, 7 *tetrapedia*, in all 1 new genus and 213 (22 new species of *afidae* from North America, mostly described in but one sex and from not more than three specimens; *epoelus mercatus* re-described; figures the venation of fore wing of *coelioxys*, and characteristic structural details of 11 species of *coelioxys*, 2 of *osmia*, 6 of *anthidium*, and 1 each of *heriades*? and *aitidamea*. B: P. M. 3796)

**Cresson, Ezra Townsend.** Descriptions of new North American hymenoptera in the collection of the American entomological society. (Trans. Amer. entom. soc., Feb. 1879, v. 7, p. 201-214.)

Describes 3 species of *calliopsis*, *perdita zonalis*, 4 *nomada*, *phileremus*? *productus*, 3 *melicta*, *stelis lateralis*, 2 *heriades*?, 8 *anthidium*, 4 *megachile*, 2 *melissoides*, 8 *anthophora*, 2 *xylocopa*, 3 *centris*, *apathus*? *californicus* and *panurgus nevadensis*, in all 43 new species of *afidae* from North America; describes also 2 new varieties; *calliopsis lateralis* is a variety of *c. edwardsii*. [Cont. from p. 139, and on p. 455.] B: P. M. (3797)

**Cresson, Ezra Townsend.** Descriptions of new North American hymenoptera in the collection of the American entomological society. (Trans. Amer. entom. soc., May 1879, v. 7, p. 255-256.)

Describes 5 new species of *anclusus* from Colorado and Nevada, and 1 from Vancouver's Island

B: P. M. (3798)

**Cresson, Ezra Townsend.** Descriptions of new species belonging to the sub-family *pimplariæ* found in America north of Mexico. (Trans. Amer. entom. soc., Sep. 1870, v. 3, p. 143-172.)

Describes *acronites rubripulvensis* Walsh, 2 species of *ephyallus*, *epimecis wiltoni*, 15 *pimpla*, 3 *polysphincta*, *distopoga annulipes*, 22 *glypta*, *schizopoga frigida*, 3 *arenetra*, *cylocoeria occidentalis*, 18 *lampronota*, 2 *miniscus*, 2 *phylodictus*, *vorides borealis*, *euxorides* n. g., *c. americanus*, 3 *xylonomus*, 2 *odontomerus*, in all 1 new genus and 79 new species of North American *pimplariæ*, and gives a list of the 24 genera and 127 species; gives synoptical tables to discriminate the 21 species of *pimpla*, 3 *polysphincta*, 23 *glypta*, 4 *arenetra*, 22 *lampronota*, 6 *xylonomus*, 5 *odontomerus*. B: P. M. (3798)

**Cresson, Ezra Townsend.** Descriptions of Mexican *ichneumonidae*. (Proc. Acad. nat. sci. Philad., v. 25 : 25 Mar.-8 Apr. 1873, p. 104-176; 13 Jan.-17 Feb. 1874, p. 374-413.) [Rec., 40.]

Describes 205 (210 new) species of 47 *nomus*, *toxophoroides* — 2 new) genera or subgenera of *ichneumonidae* from Mexico. B: P. M. 3800

**Cresson, Ezra Townsend.** Descriptions of North American hymenoptera in the collection of the Entomological society of Philadelphia. (Proc. Entom. soc. Philad., June 1864, v. 3, p. 131-196.)

Describes 5 (4 new) species of *foenus*, 2 new *anclusus*, 79 new *ichneumon* and 12 new *ischnus* all from North America, with a synoptic table of groups of *ichneumon* to facilitate determination; gives alphabetic index to the species here described. B: P. M. (3801)

**Cresson, Ezra Townsend.** Descriptions of North American hymenoptera in the collection of the Entomological society of Philadelphia. (Proc. Entom. soc. Philad., Sep. 1864, v. 3, p. 257-321.)

Describes 30 species of *mesoleptus*, 16 *tryphon*, 5 *steniscus*, 7 *evochus*, *trogon flavipennis*, *hoplismenus thoracicus*, 25 *cryptus*, 7 *phygadeuon*, 5 *mesostenus*, and 3 *rhysa*, all new North American species, with synoptic tables of groups of *mesoleptus*, *tryphon* and *cryptus*, to facilitate the determination of the species here described, and with alphabetic index to the species here described. B: P. M. (3802)

**Cresson, Ezra Townsend.** Descriptions of several new species of North American *afidae*. (Proc. Entom. soc. Philad., Apr.-May 1864, v. 3, p. 38-45.)

Describes *epoelus bifasciatus* ♂, *stelis montana* ♀, *xylocopa californica* ♂, *bombus consimilis* ♀, *b. centralis* ♀, and *apathus ashlomi* ♀, all new North American species, and re-describes *bombus borealis* ♀ ♂ ♂. B: P. M. (3803)

**Cresson, Ezra Townsend.** Descriptions of some new species of *mutilla*, from California. (Proc. Entom. soc. Philad., June 1865, v. 4, p. 385-390.)

Notice. GERSTÄCKER, A. Bericht... 1865-1866, hälfte 2, 1869, p. 25-26.)

Describes 7 new species of *mutilla*, from California and Lower California. B: P. M. 3804

**Cresson, Ezra Townsend.** Descriptions of two new genera of North America *ichneumonidae*. Proc. Entom. soc. Philad., Nov. 1864, v. 3, p. 397-402, 1 fig.)

Describes *grolca* n. g., *g. angusta* n. sp., *labena* n. g., *l. apicalis* n. sp., and re-describes *T. Say's cryptus grallator* as *labena grallator*; figures structural characters of *grolca*. B: P. M. 3805

**Cresson, Ezra Townsend.** Descriptions of two new species of *arotes*. (Trans. Amer. entom. soc., Feb. 1860, v. 2, p. 260.)

Gives a synoptical table of the 5 known North American species of *arotes*, and describes *a. vicinus* and *a. robustus*, 2 new species. B: P. M. 3806

**Cresson, Ezra Townsend.** Descriptions of two new species of *masaris*. (Proc. Entom. soc. Philad., Dec. 1864, v. 3, p. 672-678.)  
Describes *masaris zonalis* ♀ ♂ and *m. marginalis* ♀, 2 new species, and re-describes *m. vespodis*, all from Colorado.  
B: P. M. (3807)

**Cresson, Ezra Townsend.** Descriptions of two new species of *masaris*. (Trans. Amer. entom. soc., Dec. 1871, v. 3, p. 348.)  
Describes *masaris occidentalis* and *m. texana*, 2 new species, from Texas.  
B: P. M. (3808)

**Cresson, Ezra Townsend.** Descriptions of two new species of *trigonalys*. (Proc. Entom. soc. Philad., Feb. 1867, v. 6, p. 351-352.)  
Describes *trigonalys pulchellus* ♂ n. sp., from West Va., and *L. (Lycogaster) costalis* ♂ n. sp., from Mass.; it *Lycogaster* is a distinct genus, as author is "inclined to believe," *trigonalys gundlachii* belongs to it.  
B: P. M. (3809)

**Cresson, Ezra Townsend.** On the hymenoptera of Cuba. (Proc. Entom. soc. Philad., Jan. 1865, v. 4, p. 1-200, fig. 1-6.)  
Notice. (GERSTAECKER, A. Bericht . . . 1865-1866, hälfte 2, 1869, p. 4, 17, 21, 22, 25; 26, 32-38, 40, 43.)  
Enumerates 321 (257 new) species of hymenoptera found in Cuba, in general of all families except *Proctotrupidae*, *Formicidae* and the smaller *Chalcididae*, with synonymical references, and describes the new species; describes *antalcodes*, n. g. of *evaniidae*, and *epirhyssa*, *ciphosoma*, *rhopalosoma* and *chaonia*, new genera of *Ichneumonidae*.  
B: P. M. (3810)

**Cresson, Ezra Townsend.** Hymenoptera texana. (Trans. Amer. entom. soc., Nov. 1872, v. 4, p. 153-292.)  
"List of all the species of hymenoptera known to me from Texas, excepting those belonging to the families *Chrysididae*, *Formicidae* and the smaller *Chalcididae*; . . . of the 19 families studied in this paper, over 600 species are enumerated, nearly 300 of which appear to be new, and are herein described."—Author, op. cit., p. 153. Systematic index of species (p. 286-292).  
B: P. M. (3811)

**Cresson, Ezra Townsend.** List of the North American species of *bombus* and *apathus*. (Proc. Entom. soc. Philad., July 1863, v. 2, p. 83-116.)  
Corrections, by author, with no title. (op. cit., Oct. 1863, p. 164-166.)  
Quotes description of generic characters of *bombus* from F: Smith's "Catalogue of British Hymenoptera" . . . 1855, pt. 1, p. 207, and mentions other characters; describes generic characters of *apathus*; gives synoptical table and special description of 47 (15 new) North American species of *bombus*, and descriptions of 7 (1 new) N. A. species of *apathus*; discusses the sexual characters of *bombus*; gives alphabetic index (p. 110) to species here described.  
B: P. M. (3812)

**Cresson, Ezra Townsend.** List of the North American species of the genus *aleiodes* Wesm. (Trans. Amer. entom. soc., Nov. 1869, v. 2, p. 377-382.)  
Gives a synoptical table of the 22 North American species of *aleiodes*, and describes 20 new species.  
B: P. M. (3813)

**Cresson, Ezra Townsend.** A list of the North American species of the genus *anthophora*, with descriptions of new species. (Trans. Amer. entom. soc., Mar. 1869, v. 2, p. 289-293.)  
Gives a synoptical table and synonymical list of the 14 North American species of *anthophora* known to the author, and describes 8 new species; 3 described species not recognized.  
B: P. M. (3814)

**Cresson, Ezra Townsend.** On the North American species of several genera of *aphidæ*. (Proc. Entom. soc. Philad., Feb.-Mar. 1864, v. 2, p. 373-411.)  
Describes 10 (1 new) species of *anthidium*, 2 *Chelostoma*, 2 (new) *heriades*, *andronicus* n. g., a *Cylindricus* n. sp., *alcidumea* n. g. and 2 n. spp., *monomethis* n. g. and 3 n. spp., 4 (1 new) *ceratium*, 9 (1 new) *epicolus*, 12 (3 new) *coelioxys*, and 4 (2 new) *stelis*, in all 3 new genera and 49 (10 new) species of *aphidæ* from North America; quotes the descriptions of the not new genera from F: Smith's "Catalogue of British Hymenoptera" . . . 1855, pt. 1; *coelioxys* parasitic on *megachile*.  
B: P. M. (3815)

**Cresson, Ezra Townsend.** On the North American species of the genus *nomada*. (Proc. Entom. Soc. Philad., Nov.-Dec. 1863, v. 2, p. 280-312.)  
Quotes descriptions of generic characters of *nomada* from F: Smith's "Catalogue of British Hymenoptera" . . . 1855, pt. 1, p. 116, and mentions other characters and variations of wing-veinuration; describes 33 (17 new) North American species.  
B: P. M. (3816)

**Cresson, Ezra Townsend.** On the North American species of the genus *osmia*. (Proc. Entom. soc. Philad., Apr. 1864, v. 3, p. 17-38.)  
Quotes description of the generic characters of *osmia* from F: Smith's "Catalogue of British Hymenoptera" . . . 1855, pt. 1, p. 157, and describes the 33 (28 new) North American species, 31 of which are known to the author; refers to Smith's work, p. 158-162, for "a very interesting account of the economy of these bees."  
B: P. M. (3817)

**Cresson, Ezra Townsend.** Notes on the *pompilidae* of North America, with descriptions of new species. (Trans. Amer. entom. soc., June 1867, v. 1, p. 85-150, fig. 1-17.)  
Notice, by F. Brauer. (GERSTAECKER, A. and BRAUER, F. Bericht . . . 1867-1868, 1871, p. 87.)  
Enumerates 57 (15 new) species of *pompilus* subg. *pompilus*, 25 (13 new) *pompilus* subg. *prionocnemis*, 28 (10 new) *pompilus* subg. *agenia*, 3 *terreola*, 2 *notocyphus*, *parapompilus* *nuomi*, 5 (2 new) *planiceps*, *aporus* *fuscicatus*, 8 (2 new) *ceropales*, 3 (2 new) *myginitia*, 20 (1 new) *pepsis*, from North America; describes the new species and re-describes nearly all the old species enumerated, or refers for their description to author's "On the Hymenoptera of Cuba" (Proc. Entom. soc. Philad., Jan. 1865, v. 4) [Rec., 3810], p. 121-134, and author's "Catalogue of Hymenoptera . . . from Colorado Territory" (Proc. Entom. soc. Philad., June 1865, v. 4) [Rec., 3792], p. 451-454; characterizes the genera and subgenera mentioned, and figures the veinuration of the wings and other structural characters of some of the genera and species.  
B: P. M. (3818)

**Cresson, Ezra Townsend.** Notes on Cuban hymenoptera, with descriptions of new species. (Trans. Amer. entom. soc., Mar. 1869, v. 2, p. 293-298.)

Describes *sphex mandibularis* ♀, *larraida luteifemur* ♀, *agapostemon obscurata* ♀, *megacilissa*? *nigrescens* ♀, *m?* *subarata* ♀, *microchile armaticeps* ♀, *coelioxys regularis* ♀, *melissodes mimicus* ♀, and *Centris armillatus* ♀, 6 new species; *odynerus defecus* ♀, *o. cingulatus* ♀, *o. cubensis* ♀, *megachile curta* ♀ and var. *tibialis* ♀, *coelioxys producta* ♀, and *examolopsis similis* ♀, new sexes of not new species; with further descriptions of *monedula insularis* ♀ and var. *♀*, *bombex argentifrons* ♀ ♀, and *b. armata* ♀, all from Cuba.

B. P. M. (3819)

**Cresson, Ezra Townsend.** Notice of three new hymenopterous parasites. (Amer. entom., Jan. 1880, v. 3, n. s., v. 1, p. 24, 21 cm.)

Description of *Opelutella lycti* n. sp. parasitic on the larva of *lyctus striatus*, and of *a. utilis* and *a. minima* both new species parasitic on the larva of *trogloxylon parallelepipedum*.

B. P. M. (3820)

**Cresson, Ezra Townsend.** [On some species of *bombus*.] (Proc. Entom. soc. Philad., Oct. 1863, v. 2, p. 164-166.)

Corrections of author's "List of the North American species of *bombus* and *apathus*" (op. cit., July 1863, p. 83-116) [Rec. 3, 3812], and additional notes on *bombus pensylvanicus*, *b. virginicus* and *apathus clatus*; "*b. nidulans*" a variety of *a. clatus*, *b. impatiens* = *b. virginicus*; specimens of *b. separatus* n. sp. (here described) formerly confounded with *b. virginicus*; *b. virginicus* re-described; "*apis griseicollis*" ♀ = ? *b. virginicus* ♀; "*apis griseicollis*" ♂ = ? *xylocopa virginica* ♀.

B. P. M. (3821)

**Cresson, Ezra Townsend.** Synopsis of the North American species belonging to the genera *leucospis*, *smicra* and *chalcis*. (Trans. Amer. entom. soc., Feb. 1872, v. 4, p. 29-60.)

Describes 10 (8 new) species and 1 new variety of *leucospis*, 52 (33 new) species and 1 new variety of *smicra*, and 4 (3 new) species of *chalcis*, from North America; quotes descriptions of 3 *leucospis* and 20 *smicra* unidentified, and refers to descriptions of 2 (unidentified) *smicra* and 6 (3 unidentified) *chalcis* not here described; gives synoptical tables to discriminate the identified species of each of these genera.

B. P. M. (3822)

**Csokor, Johann.** Ueber haarsackmilben und eine neue varietät derselben bei schweinen, *demodex phylloides*. (Verhandl. k.-k. zool.-bot. gesells. in Wien, 1879, v. 29, p. 419-450, pl. 8.)

History, literature, classification and description of five varieties of *demodex*; anatomy, natural history and occurrence of *d. phylloides*, which lives in the skin of the hog.

G. D. (3823)

**Dahl, Friedrich.** Ueber die hörhaare bei den arachnoiden. (Zool. anzeiger, 21 May 1883, jahrg. 6, p. 267-270, 2 fig.) [not seen.]

Notice, by P. Mayer. (Zool. jahresb. für 1883, 1884, abth. 2, p. 58-59.)

Demonstration of auditory hairs on the legs, palpi and claws of arachnida; position and action of these hairs.—Mayer, l. c.

B. P. M. (3824)

**Dahl, Friedrich.** Beiträge zur biologie der spinnen. (Zool. anzeiger, 3 Nov. 1884, jahrg. 7, p. 591-595.)

Partial Engl. tr. entitled "Contributions to the biology of spiders." (Ann. and mag. nat. hist., Jan. 1885, s. 5, v. 15, p. 70-72.)

Notes upon the intelligence, instinct, acuteness of sight and of hearing, and reparation of nests of spiders; secondary sexual characters of spiders and their dependence upon sexual selection.

G. D. (3825)

**Dahl, Friedrich.** Contributions to the biology of spiders. (Ann. and mag. nat. hist., Jan. 1885, s. 5, v. 15, p. 70-72.)

Partial tr. of the author's "Beiträge zur biologie der spinnen" (Zool. anzeiger, 3 Nov. 1884, jahrg. 7, p. 591-595) [Rec., 3825].

G. D. (3826)

**De Garmo, James M.** Some evidence of intelligence in butterflies. (Trans. Vassar brothers' institute, 1883-1884, 1884, v. 2, p. 129-135.)

Considers how far the actions of certain butterflies are governed by intelligence.

G. D. (3827)

**Dewitz, H.** Die befestigung durch einen klebenden schleim beim springen gegen senkrechte flächen. (Zool. anzeiger, 21 May 1883, jahrg. 6, p. 273-274.)

Notice, by P. Mayer. (Zool. jahresb. für 1883, 1884, abth. 2, p. 1, 7.)

Dewitz endeavors, upon *a priori* grounds, to show that a viscid secretion is essential to the instantaneous fixing of springing insects, especially such as live on trees and bushes, and springing spiders.

E. L. M. (3828)

**Dorfmeister, Georg.** Ueber den einfluss der temperatur bei der erzeugung der schmetterlings-varietäten. (Mittheil. Naturwissensch. ver. f. Steiermark, jahrg. 1879 [Graz, 1880] & Abhandl., p. 3-8, pl.)

Separate. Graz, author, 1880. 8 p., 1 col. pl., 23 X 15, 117-5 X 10.1.

Colored figure of a  *Vanessa atalanta* of normal coloration and one in which the coloration was varied by exposing its pupa to a low temperature; results of other experiments in producing varieties with this and other butterflies by varying the temperature to which the pupa was exposed.

G. D. (3829)

**Druce, Herbert.** Descriptions of new species of *uegeriidæ* and *sphingidæ*. (Entom. mo. mag., June 1882, v. 19, p. 15-18.)

Describes to new species, one of which, *choerocampa godmani*, inhabits Panama.

B. P. M. (3830)

**Du Bose, J. W.** Influence of winds on *aletia*. (Amer. entom., Apr. 1880, v. 3, n. s., v. 1, p. 105-106, 35 cm.)

Record of author's observation that *aletia xyliana* only injures cotton plants after the prevalence of east and south-east winds; the character of foliage and fruitage is favorable to the insects and unfavorable to the crop in seasons when those winds prevail.

B. P. M. (3831)

**Dury, C:** Notes on food of raptorial birds. (Journ. Cincinnati soc. nat. hist., April 1885, v. 8, p. 62-67.)

Among other animals found in crops of birds, insects were found in *buteo linearis*, *bubo virginianus* and *sops asio*. *G. D.* (3832)

**Dwight, W:** Buck. Appearance of the bean-weevil, *bruchus fabae*, (*varicornis*), at Poughkeepsie. (Trans. Vassar brothers' inst., 1881-1883, v. 1, p. 80-87.)

Notes on the habits of *bruchus jobae*. *G. D.* (3833)

**Eaton, Alfred Edwin.** Dragon-flies and telegraph wires. (Entom. mo. mag., Nov. 1879, v. 16, p. 135.)

Reprint. (Amer. entom., Jan. 1880, v. 3, n. s., v. 1, p. 20, 5 cm.)

Observation upon a habit of small species of *libellula* of alighting on telegraph wires and eating their prey there. ["*Libellulidae*"] in the reprint (corrected) substituted for "*libellulæ*" in the original.] *B: P. M.* (3834)

**Edes, R: A.** Cotton culture and the insects affecting the plant at Bahia, Brazil. (Amer. entom., May 1880, v. 3, n. s., v. 1, p. 128-129, 29 cm.)

Letter, with notes [by C. V. Riley]; cotton not much cultivated at Bahia, Brazil; its insect enemies and their seasons; direction of the winds in fall and winter. Description of egg, larva and pupa of "the cotton worm of Bahia" (*anomis* sp.); suggestion of the identity of this insect with *obtia argillacea* of Hübner; list of insects found in bolls of cotton sent from Bahia.

*B: P. M.* (3835)

**Edible insects.** (Prairie farmer, 5 Nov. 1864, [v. 30], n. s., v. 14, p. 298, 31 cm.)

Mentions use of locusts, ants, white-ants, various larvae and pupae, a *psylla*, spiders, worms, snails and other small animals, as food for humans.

*B: P. M.* (3836)

**Edwards, W: H:** On certain North American species of *satyrus*. (Proc. Entom. soc. Philad., July 1866, v. 6, p. 195-200.)

Discussion of the genetic relations and specific characters of *satyrus pegala* and *s. alope*, which form one group of the genus, and *s. nephele*, *s. ariane* and *s. boopis*, which form another group; detailed comparisons of *s. alope* and *s. nephele* in characters and geographical distribution; *s. nephele* perhaps the ancestral form; limits to range of variation of butterflies; criteria of species.

*B: P. M.* (3837)

**Edwards, W: H:** Description of a new hesperian. (Trans. Amer. entom. soc., July 1868, v. 2, p. 122.)

Describes *hesperia vacco* n. sp., from Texas. *B: P. M.* (3838)

**Edwards, W: H:** Description of a new species of *limenitis*. (Proc. Entom. soc. Philad., Sep. 1865, v. 5, p. 148.)

Describes *limenitis proserpina* n. sp., from N. Y. *B: P. M.* (3839)

**Edwards, W: H:** Description of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 1. (Proc. Entom. soc. Philad., Mar. 1863, v. 2, p. 14-22, pl. 1, 5, 11.)

Describes and figures *colias atalanta* and 10 species of *hesperia*, and describes *thecla clathrata* and *hesperia omaha*, all new species, from United States or British America. *B: P. M.* (3840)

**Edwards, W: H:** Description of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 2. (Proc. Entom. soc. Philad., July 1863, v. 2, p. 78-82.)

Describes *parnassius sayii* ♀, *colias christina*, *c. helena*, *lycaena amica* ♂, and *melitaea tevana* ♂, all new species, and describes *anthracis ansonoides* and *chion obas chryxus*, previously mentioned or figured, but not described; all from United States or British America. *B: P. M.* (3841)

**Edwards, W: H:** Description of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 3. (Proc. Entom. soc. Philad., Mar. 1864, v. 2, p. 501-507.)

Describes *pietris vernalis*, *erestia cincta*, *argynnis hesperis*, *melitaea pallida*, *m. phoen*, *lycaena echo*, *l. lyca* and *hesperia nemoris*, new species, and *pietris nasturtii* and *argynnis epithore*, 2 new species named by Boisduval in litt., all from United States; and remarks upon the distribution of some related species. *B: P. M.* (3842)

**Edwards, W: H:** Description of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 4. (Proc. Entom. soc. Philad., Jan. 1865, v. 4, p. 201-204, pl. 1, fig. 2-6.)

Describes *melitaea picta* ♀, *satyrus ridingsii* ♀, *hesperia naja* ♂ ♀ (fig.), *h. maculata* ♀ (fig.), *h. viator* ♂ (fig.) ♀, *h. ricara* ♂ (fig.), *lycaena rustica* ♂ ♀, 7 new U. S. species. *B: P. M.* (3843)

**Edwards, W: H:** Description of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 5. (Proc. Entom. soc. Philad., July-Oct. 1866, v. 6, p. 200-208.)

Describes *papilio bairdii* ♂, *colias behrii*, *lycaena violacea*, *l. merila* ♀, *xyrichtus alba* ♂, *hesperia ottoe* ♂, *h. mingo* ♂, and *h. zeyra* ♂, 8 new United States species; quotes the original description of *lycaena lucia* in full, re-describes *l. pseudardiolus*, and compares these two species, *l. violacea* and *l. neglecta* as to their characters, seasons, and geographical distribution; list of 13 species of butterflies received from Arizona.

*B: P. M.* (3844)

**Edwards, W: H:** Description of the female of *argynnis diana*. (Proc. Entom. soc. Philad., Nov. 1864, v. 3, p. 431-434.)

Describes *argynnis diana* ♀ for the first time; habits and seasons of ♂ and ♀; "the males of most, if not all, species of butterflies appear some days earlier than the females, and disappear as much sooner"; notes on the relative abundance of more than 30 species of diurnal lepidoptera and of a few *sphinxidae* in West Virginia; seasons of the species of *lycaena* observed; occurrence of dimorphic forms of *papilio turnus* and *limenitis ursula*. *B: P. M.* (3845)

**Edwards, W: H:** Descriptions of certain species of *catocala*, found within the United States. (Proc. Entom. soc. Philad., Mar. 1864, v. 2, p. 508-512.)

Describes 11 new species of *catocala*, from United States. B: P. M. (3846)

**Edwards, W: H:** Descriptions of certain species of diurnal lepidoptera found in the United States. (Trans. Amer. entom. soc., Apr. 1869, v. 2, p. 311-312.)

Describes *hesperia wakulla* ♂ and *h. eufala* from Florida, and *h. melane* from California; occurrence of *timetes deucha* in Florida. B: P. M. (3847)

**Edwards, W: H:** Descriptions of certain species of diurnal lepidoptera found within the limits of the United States and British America. No. 2. (Proc. Acad. nat. sci. Philad. Feb. 1862, [v. 14], p. 54-58.)

Describes *argynnis atlantis*, *thecla acadica* ♀, *th. lacta*, *lycaena neglecta*, *pamphila zerna*, *p. rurea*, and *hesperia viasis*, all new species, and describes *chionobas taygete* ♀, all from North America; remarks upon the comparative characters and geographical distribution of species closely allied to the *argynnis* and *lycaena*.

B: P. M. (3848)

**Edwards, W: H:** Descriptions of certain species of diurnal lepidoptera, found within the limits of the United States and of British America. No. 3. (Proc. Acad. nat. sci. Philad., Apr. 1862, [v. 14], p. 221-226.)

Describes *argynnis nokomis* ♂, *grapta faunus*, *thecla californica*, *th. viridis*, *th. affinis*, *lycaena behrii*, *l. femina* and *l. shasta*, all new species; describes *parnassius smiltheus* and *limenitis eulalia*, previously figured but not described; and describes *lycaena scudderii* ♀: all from North America. B: P. M. (3849)

**Edwards, W: H:** Descriptions of certain species of diurnal lepidoptera found within the United States, figured in Doubleday's Genera but undescribed. (Proc. Entom. Soc. Philad. July 1862, v. 1, p. 221-224.)

Describes *argynnis astarte*, *melitaea chateaudon*, and *m. anicia*, all three from Pacific coast or Rocky Mountains of United States, and *timetes corexia*, from Texas; *m. anicia* also from Kansas. B: P. M. (3850)

**Edwards, W: H:** Descriptions of new North American diurnal lepidoptera. (Trans. Amer. entom. soc., Nov. 1870, v. 3, p. 189-196.)

Describes *pietis calyce* ♂, *argynnis bischoffii*, *melitaea sterope*, *m. thekla* ♀, *eresia punctata* ♀, *chionobas stretchii*, *satyrus gabbi*, *thecla dryope*, *lycaena mintha*, *l. fulla*, *lemonias palmerii*, *syrrictus petreus* ♂, *elyopides skada* ♀, and *hesperia minima* ♀, 14 new species from North America. B: P. M. (3851)

**Edwards, W: H:** Descriptions of new species of diurnal lepidoptera found within the United States. (Trans. Amer. entom. soc., Sep. 1869, v. 2, p. 369-376.)

Describes *anthocaris reaktivii*, *pietis hulda*, *argynnis behrensii*, *melitaea vesta*, *m. arachne*, *grapta arcas*, *g. satyrus*, *coenonympha kodiak*, *c. brenda*, *thecla chalcis* and *lycaena arcus*, all new species from North America, with descriptive comparative notes on larvae and imagos of *grapta*. B: P. M. (3852)

**Edwards, W: H:** Descriptions of new species of diurnal lepidoptera found within the United States. (Trans. Amer. entom. soc., Jan. 1870, v. 3, p. 10-22.)

Describes *parnassius behrii* ♂, *colias edwardsii* Behr, *c. emilia*, *c. ariadne*, *pietis virginensis*, *argynnis nevadensis*, *grapta silenus* ♂, *g. zephyrus* ♀, *g. murrayi*, *g. dryas*, *thecla behrii*, *th. tetra* Behr, *th. dryope*, *lycaena kodiak*, *chrysothamus cupreus*, *ch. hermes*, *ch. virginensis* and *hesperia hayhurstii*, 18 new species from North America. B: P. M. (3853)

**Edwards, W: H:** Descriptions of new species of diurnal lepidoptera found within the United States. (Trans. Amer. entom. soc., Jan. 1871, v. 3, p. 205-216.)

Describes *anthoc[h]aris hyantis*, *phyciodes orseis*, *ph. canace* ♀, *thecla cygnus* ♀, *th. castalis*, *lycaena helios*, *l. viaca* ♂, *l. ardea* ♀, *l. glaucon*, *l. gyas* ♂, *l. fea*, *chrysothamus ianthe*, *charis nemesis* ♂, *euphychia rubricata*, *coenonympha ampelos*, *syrrictus oceanus* ♀, *stereoptes skada* ♀, *heteropterus arene* ♀, *h. proeris*, *hesperia lamenand* and *h. ophis*, 21 new species from North America; states in note, on authority of A. G. Butler, that *thecla castalis* = *papilio [thecla] damon*; note also on *euphychia rubricata*. B: P. M. (3854)

**Edwards, W: H:** Descriptions of new species of North American butterflies. (Trans. Amer. entom. soc., Feb.-Apr. 1871, v. 3, p. 266-267.)

Describes *anthoc[h]aris olympia*, *colias meadii*, *argynnis helena*, *phyciodes camillus* ♂, *ph. emissa*, *chrysothamus sirius*, *thecla minus* ♂, *th. antiochus* ♀, *th. alcetis* ♀, *lycaena daunus* ♀, *l. alce* ♀, *eresia rhodia*, *e. collis*, *thymetis hylax* ♀, *pamphila draco*, *p. licinus* ♂, *p. attalus* ♀, *hesperia eos* ♀, *h. dacotah* ♀ and *h. horius* ♀, 20 new species from United States; describes also *lycaena lyca* ♀. B: P. M. (3855)

**Edwards, W: H:** Larva of *apatura alicia*. (Amer. entom., Aug. 1880, v. 3, n. s., v. 1, p. 206, 2 cm.)

Larva of *apatura alicia* obtained from Florida, its coloration and distinctness from the larva of *a. celtis*. B: P. M. (3856)

**Edwards, W: H:** List of species of butterflies collected by Campbell Carrington and William B. Logan, of the expedition, in 1871. (HAYDEN, F. V. Preliminary rept. U. S. geol. surv. Montana... 1872, p. 466-467.)

List of 31 species of butterflies collected in Montana and adjacent territories; describes *eresia haydenii* n. sp. B: P. M. (3857)

**Edwards, W: H:** Notes on a remarkable variety of *papilio turnus*, and descriptions of two species of diurnal lepidoptera. (Trans. Amer. entom. soc., Sep. 1868, v. 2, p. 207-210.)

Records the capture of a *papilio turnus* ♀, one half of black (*p. glaucus*) and one half of yellow (*p. turnus*) coloration; describes *melitaea marcia* and *thecla ontario* ♀, 2 new species from North America; gives synonymical and descriptive comparative notes on several species of *melitaea*. B: P. M. (3858)

**Edwards, W:** II: Notes on graptas *c-aurum* and *interrogationis*. Fab. (Trans. Amer. entom. soc., Jan. 1870, v. 3, p. 1-9.)

Crit. rev., by J. A. Lintner, entitled "On graptæ *interrogationis* and *fabricii* of Edwards." (*op. cit.*, Dec. 1870, p. 197-204.)  
Synonymical and comparative descriptive notes on the 3 species of *grapta* to which have been applied the trivial names *c-aurum*, *angelica*, *interrogationis* and *unbrasa*, and re-description of one of these species as *grapta fabricii* n. sp., describes *g. dryus* n. sp., and eggs, larvæ and pupæ of *g. interrogationis* and *g. fabricii*; compares imago of *g. comma* with the other species. *B: P. M.* (3859)

**Edwards, W:** II: Notes upon *grapta comma*. Harris, and *grapta faunus*. Edwards (*c-album*, of some authors). (Proc. Entom. soc. Philad., Mar. 1862, v. 1, p. 182-184.)  
Distinguishes *grapta comma* from *g. faunus*, and both from *g. album*; describes larvæ and pupa of *g. comma*; food-plants, seasons and geographical distribution of *g. comma* and *g. faunus*; distinguishes three varieties of *g. interrogationis*. *B: P. M.* (3800)

**Edwards, W:** II: Notes upon *papilio asterias* and *saturnia promethea* hermaphrodites. (Proc. Entom. soc. Philad., June 1865, v. 4, p. 390.)

Mentions a specimen of *papilio asterias* with right wings male and left wings female, and one of *saturnia promethea* with male and female characteristics intermixed. *B: P. M.* (3861)

**Entomological club of the American association for the advancement of science—President, 1879** (Joseph Albert Lintner). Annual address. (Can. entom., Sep. 1879, v. 11, p. 163-175.)

Review of the progress in entomology in North America during the past year, with notices and reviews of some of the entomological publications of the year; statistics of the number of entomologists in North America. *B: P. M.* (3802)

**French, G:** Hazen. A new species of *articia*. (Can. entom., Mar. 1879, v. 11, p. 45-46.)  
Describes *articia rectilinea* n. sp. *G: D.* (3803)

**French, G:** Hazen. Some new species of *noctuidæ*. (Can. entom., Apr. 1879, v. 11, p. 76-78.)  
Describes *dicopsis vitis*, *orthosia signata*, and *he-liothis illinoensis*, 3 n. sp. of *noctuidæ*, the last from Ill. *G: D.* (3804)

**Goding, F. W.** Insects injurious to vegetation in Iowa. (Rept. Iowa state agric. soc. for 1882. 1883, p. 322-329.)

Reprint, by author, entitled "A report on insects injurious to vegetation in Iowa, to the secretary of the state agricultural society, for the year 1882. Ancona, Ill., *Advocate publ. co.*, 1883. 11 p., 23 X 16, t 16 X 11.

Treats in a general and popular manner, typographically very inaccurate, of *anisopteryx* [corr.] *vernata*, *clisiocampa americana*, *scandria rufi*, *phyllophaga fusca*, *leucania unipuncta*, *blissus leucopterus*, *doryphora decemlineata*, *pinicia rimosalis* and *hieris rapae*, and how to destroy them. *G: D.* (3865)

**Goding, F. W.** A report on the insects injurious to vegetation in Iowa, to the secretary of the State agricultural society, for the year 1882. (Reprint from the Transactions.) Ancona, Ill., *Advocate publ. co.*, 1883. 11 p., 23 X 15.5, t 16 X 11.

Reprint of author's "Insects injurious to vegetation in Iowa" (Rept. Iowa state agric. soc. for 1882, 1883, p. 322-329) [Rec., 2865], with many typographical blunders. *G: D.* (3866)

**Grote, A:** Radcliffe. A new *catocala* from Florida. (Can. entom., Jan. 1879, v. 11, p. 15.)  
Describes *catocala sinuosa* n. sp., from Florida. *G: D.* (3867)

**Grote, A:** Radcliffe. On a new species of *folia*. (Can. entom., May 1879, v. 11, p. 94-96.)  
Notes on the generic characters of *folia*; description of *p. illipida* n. sp., from Nev. and Col. *G: D.* (3868)

**Guillebeau, A. and Luchsinger, B.** Fortgesetzte studien zu einer allgemeinen physiologie der irritabeln substanzen. Ein beitrug zur kenntnis des centralmarkes der annulata Cuvieri. (Arch. gesammte phys. . . Pflüger, 27 June 1882, v. 28, p. 1-60.)

Notice by P. Mayer. (Zool. jahresb. für 1883, 1884, abth. 2, p. 1, 4.)

Gives the result of experiments with various poisons (kalium, strychnin, morphium, curare, conium) upon several insects, insect larvæ, and other invertebrates, treating of insects especially on p. 12, 25, 26, 45. A comparison of their results with the histological conclusions of their predecessors leads to the conviction that the latter seriously need revision. They controvert Leydig's claim that a part of the fibres of the commissures enter the ganglia to emerge at once in the lateral nerves [i. e., without the interpolation of ganglionic cells.] *E: L. M.* (3860)

**Horn, G:** II: Memoir of John L. LeConte, M. D. (Proc. Amer. philos. soc., 16 Nov. 1883 [1884], v. 21, p. 294-299.)

Account of the life and life-work of Dr. John Lawrence LeConte. *G: D.* (3870)

**Kingsley, J:** Sterling. Is the group arthropoda a valid one? (Amer. nat., Oct. [Sep.] 1883, v. 17, p. 1034-1037.)

Germ. tr., with additions, entitled "Bilden die arthropoden eine natürliche gruppe?" (Kosmos, Dec. 1883, jahrg. 7, v. 13, p. 688-691, 136 cm.)

Notice, by P. Mayer. (Zool. jahresb. für 1883, 1884, abth. 2, p. 1, 4.)

Both upon anatomical and developmental grounds Kingsley urges the separation of tracheata from crustacea. The common feature of the possession of compound eyes, not otherwise easily explicable, is the only feature not readily made consistent with the view that the two groups are not nearly related. [The (anonymous) article in Kosmos reproduces Kingsley's "with some not unessential additions," to which it is added further that Balfour had previously arrived at similar conclusions from embryological data.] *E: L. M.* (3871)

